CLAIMS

1. A method of processing a natural language input, comprising:

identifying N-best part-of-speech (POS) sequences corresponding to the natural language input;

identifying a likely base noun phrase (baseNP)
sequence based on the N-best POS sequences
identified; and

outputting the likely baseNP sequence.

sequences is most likely.

2. The method of claim 1 wherein identifying a likely baseNP sequence comprises:

identifying a plurality of baseNP sequences for each of the N-best POS tag sequences; and calculating which of the plurality of baseNP

3. The method of claim 2 wherein calculating which of the plurality of baseNP sequences is most likely comprises:

calculating a likely baseNP sequence that is most likely based on lexical information indicative of a position of words in the natural language input relative to baseNPs identified in the baseNP sequences.

4. The method of claim 3 wherein calculating a likely baseNP sequence that is most likely based on lexical information comprises:

calc	culat	ting	a lik	cely	baseNP	sec	quence	tha	t is	most
	lik	ely	based	on .	lexical	inf	ormat	ion i	indica	ative
	of	POS	tags	as	signed	to	the	word	s in	the
	nat	ural	langı	ıage	input.					

- 5. The method of claim 3 wherein calculating a likely baseNP sequence comprises:
 - calculating a likely baseNP sequence based on the lexical information for every word in the natural language input.
- 6. The method of claim 2 wherein the natural language input comprises a sentence and wherein calculating which of the plurality of baseNP sequences is most likely comprises:
 - calculating which of the plurality of baseNP sequences is most likely over the entire sentence.
- 7. The method of claim 3 wherein a baseNP rule comprises a sequence of POS tags corresponding to words in the natural language input identified as a baseNP and wherein calculating a likely baseNP sequence comprises:
 - calculating a probability of POS tags and baseNP rules, given their context.
- 8. The method of claim 7 wherein calculating a probability of POS tags and baseNP rules comprises:

calculating the probability of POS tags and baseNP rules given n prior POS tags or baseNP rules.

- 9. The method of claim 1 wherein identifying a likely baseNP sequence includes:
 - calculating a probability of each of the N-best POS sequences given the natural language input.
- 10. A natural language processing system for processing a natural language input, comprising:
 - a base noun phrase (baseNP) identifier configured to receive N-best part-of-speech (POS) tag sequences for the natural language input and identify a likely baseNP sequence of baseNPs corresponding to the natural language input, given the N-best POS tag sequences.
 - 11. The system of claim 10 and further comprising:
 - a POS tagger, coupled to the baseNP identifier, receiving the natural language input and calculating the N-best POS tag sequences corresponding to the natural language input.
- 12. The system of claim 11 wherein the baseNP identifier is configured to identify a plurality of baseNP sequences for each of the POS tag sequences and calculate which of the plurality of baseNP sequences is the likely baseNP sequence.

- 13. The system of claim 12 wherein the baseNP identifier further comprises:
 - a unified statistical model that includes lexical information indicative of a position of words in the natural language input relative to baseNPs identified in the baseNP sequences.
- 14. The system of claim 13 wherein a baseNP rule comprises a sequence of POS tags corresponding to words in the natural language input that are identified as a baseNP and wherein the unified statistical model includes a baseNP rule component for calculating a probability of POS tags and baseNP rules, given contextual information.
- 15. The system of claim 14 wherein the baseNP rule component is configured to calculate the probability of POS tags and baseNP rules, given n prior POS tags and baseNP rules.
- 16. The system of claim 15 wherein the natural language input comprises a sentence and wherein the unified statistical model is configured for calculating which of the plurality of baseNP sequences is most likely over the entire sentence.
- 17. A method of processing a linguistic input, comprising: identifying N-best part-of-speech (POS) sequences corresponding to the linguistic input;

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identifying one or more base noun phrases (baseNPs) for each of the N-best POS sequences to form a plurality of different possible baseNP sequences corresponding to each of the POS sequences; for each baseNP sequence, identifying whether it is a likely baseNP sequence based on a probability of the associated POS sequence and a probability of the baseNP sequence, given lexical information position of words indicative of а the linguistic input relative baseNPs identified in the baseNP sequence; and outputting the likely baseNP sequence identified.

The method of claim 17 wherein identifying one or more baseNPs for each of the N-best POS sequences comprises:

identifying baseNP rules for each of the N-best POS rules sequences, the baseNP comprising sequence of POS tags corresponding to words in the linguistic input identified as a baseNP.

The method of claim 18 wherein identifying whether each baseNP sequence is likely baseNP sequence, а comprises:

calculating a probability of POS tags and baseNP rules, given n prior POS tags or baseNP rules in the POS sequence.

The method of claim 19 wherein the linguistic input comprises a sentence and wherein identifying whether each baseNP sequence is a likely baseNP sequence comprises:

identifying whether each baseNP sequence is a
likely baseNP sequence over the entire
sentence.